### Monitoring Data Record

Project Title:	U-4026B (Davis Drive)	COE Action ID:	200120448
	ributary to Burdens Creek (Site 9)		
City, County and	other Location Information: Durha	am County, Davis Drive (S	Sta. 284+50RT.)
Date Construction	n Completed: 12/5/07	Monitoring	year: (2) of 5
Ecoregion:	8 digit HU	C unit 03030002	
	e and Coordinates:		
Rosgen C	lassification:		
Length of Project:	: <u>261</u> Urban or Rural:	<u>Urban</u> Watershed S	
_	A collected by: M. Green and J. Y	Young Date:	7/6/09
Applicant Informa			
	NCDOT Roadside Environmenta		
	1425 Rock Quarry Rd, Raleigh, I		
_	e Number: <u>(919) 861-3772</u> Email	address: <u>mlgreen@ncdo</u>	t.gov
Consultant Inform			
Name:			
Address: _	N 1		
	Number: E		
Project St	tatus:		
problem area proposed/required measurements the monitoring sixty days after first 5 years, documented, that the required usace, in contract required monitoring sixty days after first 5 years, documented, that the required usace, in contract required monitoring proposed for the	description of the permittee shall continue monitoring period: Reference as (missing, stressed, damaged or nired remedial action); visual inspector of channel stability/morphology will greports to the USACE, Raleigh Regrer completing the monitoring. If less the permittee shall continue monitoried bankfull events must occur during bankfull events do not occur donsultation with the resource agencies at the suggested that all bankfull occurratoring period. The permittee shall permittee shall permittee in the period.	dead plantings), estimated the dead plantings), estimated to the required. The per- ulatory Field Office Projects than two bankfull event itoring until the second ing separate monitoring yoluring the five-year monitoring the five-year monitoring that further the second and references be monitored and referenc	nated causes, and bility. Physical mittee shall submit ct Manager, within as occur during the bankfull event is ears. In the event itoring period, the other monitoring is eported through the occumentation twice
Total number of point locations lo	REFERENCE SITES devels must complete this section) reference photo locations at this site poking up and down stream photos have been taken at this site:		
Individual from	whom additional photos can be obta	ained (name, address, ph	one):
Other Information	relative to site photo reference: A site	e map is included with this	s report showing

# Section 2. PLANT SURVIVAL Attach plan sheet indicating reference photos. Identify specific problem areas (missing, stressed, damaged or dead plantings): Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: <u>Planted vegetation noted along the streambank consisted of black willow, silky dogwood, and elderberry live stakes. Tulip poplar, sycamore, willow oak, green ash, red oak, and river birch bareroot seedlings were noted in the floodplain. Other vegetation noted consisted of Juncus sp., fennel, goldenrod, black eyed</u>

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

susan, and various grasses.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Tributary to Burdens Creek is stable for Year 2 Summer evaluation, except for two slight headcuts that	have
formed at Stations 284+50 (Photo Point #1 Downstream) and at Station 285+50. NCDOT personnel met onsi	te on
5/11/09 to discuss possible options for corrective action. It was decided at that time that corrective action wa	s not
necessary and NCDOT would continue to monitor the stream relocation.	
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Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
7/6/09	Sta. 284+50	Sta. 285+50			
Structure		Crossvane			
Type					
Is water		Water is			
piping		flowing under			
through or		crossvane			
around					
structure?					
Head cut or	Slight	Slight			
down cut	Headcut	Headcut			
present?					
Bank or scour					
erosion					
present?					
Other					
problems					
noted?					

## Tributary to Burdens Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

# Tributary to Burdens Creek



Water is flowing under a crossvane and a slight headcut has formed at Sta. 285+50 which is downstream of Photo Point #3

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